



Attorney Docket No.: 8E07.1-060
Application Serial No.: 10/623,379
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: EMS Technologies, Inc.)	
)	
Serial No.: 10/623,379)	
)	Group Art Unit: 1116
File Date: July 18, 2003)	
)	Examiner: Unknown
Inventor(s): RUNYON, et. al.)	
)	
For: VERTICAL ELECTRICAL DOWNTILT)	
ANTENNA)	
_____)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop: IDS
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450


October 29, 2003

Sir:

In accordance with 37 C.F.R. § 1.56, Applicant submits herewith form PTO-1449 disclosing all known documents material to patentability for the application identified above. Applicant respectfully requests consideration of the cited documents and making the same of record in the prosecution of this U.S. application. Copies of these documents are enclosed.

No fee is believed to be due, as this Information Disclosure Statement is submitted before receipt of this application's first Official Action on the merits. 37 C.F.R. § 1.97(b)(3). However, if the United States Patent and Trademark Office finds that a fee is due, please charge to deposit account no.: 50-2591

Respectfully submitted,



Michael J. Mehrman
Registration No.: 40,086

MEHRMAN LAW OFFICE, P.C.
One Premier Plaza
5605 Glenridge Drive
Suite 795 B, Box 8
Atlanta, Georgia 30342
Tel: (404) 497-7400
Fax: (404) 419-7405

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Mail Stop IDS, Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the date indicated below:

Mailing Date: October 29, 2003

Signature: _____

Teri L. Bonica

Mailing Date: October 29, 2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	10/623,379
Filing Date	July 18, 2003
First Named Inventor	RUNYON, et. al.
Group Art Unit	1116
Examiner Name	unknown
Attorney Docket Number	8E07.1-060

(use as many sheets as necessary)

Sheet 9 of 2

[illegible]

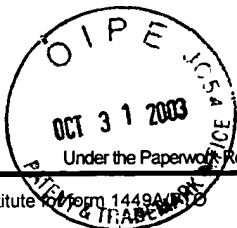
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	BA	PCT WO 01 29926 A1	4/26/2001	Tec Telesystems International		
	BB	JP P2001-136016A (English)	5/18/2001	Sumitomo Electric Industries, Ltd.		
	BC	JP P2001-136016A (Japanese)	5/18/2001	Sumitomo Electric Industries, Ltd.		
	BD	JP H9-232865 (English)	9/5/1997	Nippon Telephone and Telegram, Inc.		
	BE	JP H9-232865 (Japanese)	9/5/1997	Nippon Telephone and Telegram, Inc.		

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for Form 1449A PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

Complete if Known

Application Number	10/623,379
Filing Date	July 18, 2001
First Named Inventor	RUNYON et. al.
Group Art Unit	1116
Examiner Name	unknown
Attorney Docket Number	8E07.1-060

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	YAMADA, Y., EBINE, Y., AND KIJIMA, M -- Low Sidelobe Characteristics of a Dual-frequency Base Station Antenna in the Case of Electrical Beam Tilt Use -- 1999 IEEE Antennas and Propagation International pp 1-4	
	CB	KIJIMA, M., EBINE, Y., YAMADA, Y. -- Development of a Dual-Frequency Base Station Antenna for Cellular Mobile Radios -- April, 1999 IEICE Trans. Comm., Vol. E82-B, No. 4, pp 636-644	
	CC	KIRA, F., UENO, K., OHIRA, T., and OGAWA, H., -- New Design Approach to Multiple-Beam Forming Network for Beam Steerable Phased Array Antenna -- July 1999, IEICE Trans Electron, Vol E82-C, No. 7 pp 1195-1201	
	CD	KIRA, F., and HORI, T. -- Beamforming Network Design for Cluster Feeding of Highly Functional Scanning Antenna -- September 2001, IEICE Trans. Commun., Vol. E84-B, No. 9, pp 2436 - 2442	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.